

## Abstract

### PRESSURE REGULATING VALVE

A pressure regulating valve reduces the increased internal pressure in an aerosol spray can, filled with compressed gas, to a working pressure level for a spray valve (12). A regulating piston (52) is kept in equilibrium by a restoring force, and a sealing point (66, 68) is provided, which is closed at a pressure in the pressure regulation chamber (84) that is above the regulated pressure level. To prevent the precision of regulation from being adulterated by the decreasing internal pressure of the can as its contents are progressively withdrawn, a sealing means (86, 66; 67) is proposed, which seals off one free end of the piston (52, 74) from the internal pressure of the can and the regulated pressure. The variable internal pressure of the can is therefore no longer able to act on any axial face of the piston (52), and despite what may be a smaller piston face area, the precision of regulation is improved.